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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1916.

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Goat range study.—William R. Chapline, grazing assistant, Albuquerque, N. Mex.

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LAND CLASSIFICATION.—JOHN D. JONES, in charge.

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PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth M. Fleming.

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TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman ; JOSEPH KITTREDGE, JR., forest examiner.

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PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

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STUDIES.—H. S. YOUNGS, grazing examiner.

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LAND CLASSIFICATION.—C. B. SWIM, assistant.

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IDAHO.

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Kaniksu.—See Washington.

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- Custer.**—GEORGE E. MARTIN, forest supervisor, Miles City (WU—Am, N).
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- Kootenai.**—GLEN A. SMITH, forest supervisor, Libby (WU—Am, GN) ; John C. Ketridge, forest examiner.
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- Dakota.**—ARTHUR C. HAINES, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche—Am via Bellefourche).

SOUTH DAKOTA.

- Sioux.**—ARTHUR C. HAINES, forest supervisor, Camp Crook (WU via Bellefourche—Am via Bellefourche).

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- Kaniksu.**—J. F. FORSYTHE, forest supervisor, Newport, Wash. (WU via Priest River—Am, GN via Priest River) ; H. F. Lindsay, forest examiner.

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LANDS.—C. J. STAHL, assistant district forester. THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

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Wagon Wheel Gap, Rio Grande National Forest.—ALONZA A. JUSTICE,
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COLORADO.

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Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF) ; Peter Keplinger, forest examiner.

La Sal.—See Utah, District 4.

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Harney.—R. P. IMES, forest supervisor, Custer (WU-Ad) ; James F. Conner, deputy forest supervisor.

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- Bridger.**—LEE E. COOPER, forest supervisor, Pinedale (WU-Am).
- Hayden.**—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am).
- Medicine Bow.**—GEO. A. DUTHIE, forest supervisor, Laramie, (WU, P-Am) ; F. B. Notestein, forest examiner.
- Shoshone.**—R. W. ALLEN, forest supervisor, Cody (WU-Ad) ; B. R. H. d'Allemand, forest examiner.
- Washakie.**—C. G. POOLE, forest supervisor, Lander (WU-Am) ; Michael J. Sweeney, forest examiner.

DISTRICT 3.

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O. N. POWELL, highway engineer (Office of Public Roads and Rural Engineering).

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W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester ; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester ; MORTON M. CHENEY and FRANK E. ANDREWS, national forest examiners. Classification : REX KING, forest examiner. Entry surveys : R. P. A. JOHNSON, C. D. HODSON, C. A. LONG, and LEE C. DAVES, surveyors.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.; C. F. Korstian, forest examiner.

NATIONAL FORESTS.

ARIZONA.

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Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P-WF); R. F. Balthis, deputy forest supervisor; Gordon T. Backus, forest examiner.

Chiricahua-Coronado.—DON P. JOHNSTON, forest supervisor; Robert J. Selkirk, deputy forest supervisor, Tucson (WU-WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF).

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Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU-WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P-WF); George W. Kimball, forest examiner.

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Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU-G); E. S. Barker, deputy forest supervisor.

Chiricahua.—See Arizona.

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Gila.—HUGH G. CALKINS, forest supervisor, Silver City (WU, P-WF). Fort Bayard Nursery, H. C. Turner, forest planting assistant.

Manzano.—JAMES F. MULLEN, forest supervisor, Albuquerque (WU, P-WF); O. F. Arthur, deputy forest supervisor.

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DISTRICT 4.

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CHAS. H. KENDALL, highway engineer (Office of Public Roads and Rural Engineering).

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PLANTING.—JAMES M. FETHEROLF, in charge ; S. E. BOWER, forest examiner. Pocatello Nursery : Arthur P. Say, ranger, in charge, Pocatello, Idaho (on Cache National Forest). Cottonwood Nursery : N. J. Fetherolf, forest planting assistant, in charge, Silver Lake, Utah (on Wasatch National Forest). Beaver Creek Nursery : Asa L. Brower, forest examiner, in charge, Kamas, Utah (on Wasatch National Forest).

GRAZING.—HOMER E. FENN, assistant district forester ; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, grazing examiner.

LANDS.—C. N. WOODS, assistant district forester ; R. E. GERY, assistant ; W. B. RICE, in charge of entry surveys ; ANGUS M. WOODBURY, land classification.

SUPPLY DEPOT.—R. E. CONNER, property clerk ; H. A. BEAUVERD, assistant property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor ; W. E. THOMPSON, assistant property auditor.

EXPERIMENT STATION.

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge ; F. S. Baker and L. H. Weyl, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

- Boise.**—E. GRANDJEAN, forest supervisor, Boise (WU-Am) ; Dana Parkinson, deputy forest supervisor.
- Cache.**—See Utah.
- Caribou.**—L. W. HASTINGS, forest supervisor, Montpelier (WU-Am) ; Herman Work, deputy forest supervisor. Grazing studies : C. E. Favre and W. V. Evans.
- Challis.**—DAVID LAING, forest supervisor, Challis (WU-Am) ; E. C. Sanford, deputy forest supervisor.
- Idaho.**—H. C. WILLIAMS, forest supervisor, McCall (WU-P) ; Lawrence J. Phelan, deputy forest supervisor ; H. B. Maris, forest examiner.
- Lemhi.**—C. I. HUDDLE, forest supervisor, Mackay (WU-Am).
- Minidoka.**—W. M. CAMPBELL, forest supervisor, Oakley (WU-Am) ; C. D. Simpson, forest examiner.
- Palisade.**—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am).
- Payette.**—GUY B. MAINS, forest supervisor, Emmett (WU-Am) ; John Ingram, forest examiner ; F. S. Moore, deputy forest supervisor.
- Salmon.**—JOHN A. PEARSON, forest supervisor, Salmon (WU-Am) ; S. S. Stewart, deputy forest supervisor.
- Sawtooth.**—M. S. BENEDICT, forest supervisor, Hailey (WU-Am) ; Herbert G. McPheters, deputy forest supervisor.
- Targhee.**—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am) ; Samuel W. Stoddard, deputy forest supervisor.
- Weiser.**—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am) ; A. E. Oman, forest examiner.

NEVADA.

- Humboldt.**—VERNON METCALF, forest supervisor, Elko (WU-WF).
- Nevada.**—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF).
- Ruby.**—VERNON METCALF, forest supervisor, Elko (WU-WF).
- Santa Rosa.**—VERNON METCALF, forest supervisor, Elko (WU-WF).
- Toiyabe.**—W. W. BLAKESLEE, forest supervisor, Austin (WU, P-WF) ; Raymond G. Steele, deputy forest supervisor, Manhattan.

UTAH.

- Ashley.**—W. M. ANDERSON, forest supervisor, Vernal (WU-WF) ; Chas. F. Evans, forest examiner.
- Cache.**—E. C. SHEPARD, forest supervisor, Logan (WU-Am) ; Edmund B. S. Spencer, deputy forest supervisor. Grazing studies : L. J. Palmer.
- Dixie.**— ———, forest supervisor, St. George (WU-WF).

- Fillmore.**—JOHN RAPHAEL, forest supervisor, Richfield (WU-WF) ; J. C. Roak, forest examiner.
- Fishlake.**—C. A. MATTSSON, forest supervisor, Salina (WU-WF) ; David A. Arrivee, deputy forest supervisor. Grazing studies : Bryant S. Martineau.
- La Sal.**—S. B. LOCKE, forest supervisor, Moab (WU-WF).
- Manti.**—B. E. MATTSSON, forest supervisor, Ephraim (WU-WF) ; W. M. Mace, deputy forest supervisor. Grazing studies : J. A. Willey and R. J. Becraft.
- Minidoka.**—See Idaho.
- Powell.**—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).
- Sevier.**—J. W. HUMPHREY, forest supervisor, Panguitch (WU-WF) ; Wallace M. Riddle, deputy forest supervisor. Grazing studies : A. W. Stevens and T. B. Nichols.
- Uinta.**—A. W. JENSEN, forest supervisor, Provo (WU-WF) ; J. Carl Alfred, deputy forest supervisor ; J. W. Stokes, forest examiner.
- Wasatch.**—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P-Am, WF) ; W. W. Smith, deputy forest supervisor ; Wm. F. Tribe, James H. Hull, forest examiners.

WYOMING.

- Teton.**—R. E. MILLER, forest supervisor, Jackson (WU-Am).
- Wyoming.**—CHARLES A. BEAM, forest supervisor, Afton (WU-Am) ; L. F. Watts, forest examiner.

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester ; F. H. FOWLER, district engineer ; J. L. MATHIAS, assistant to district engineer ; L. H. WHITEMAN, in charge information ; CLARENCE WILEY, national forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—CHARLES C. BRUNNER, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester ; D. P. GODWIN, national forest examiner, assigned to fire protection ; FREDERICK H. HAFLEY, telephone expert ; EVAN W. KELLEY, national forest examiner ; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Shaw, forest examiner, assistant; Douglas K. Noyes, forest examiner.
Converse, Angeles National Forest.—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF).
California.—J. D. COFFMAN, forest supervisor, Oriental (WU via Willows-WF via Fruto); B. H. Mace, deputy forest supervisor.

Cleveland.—N. H. SLOANE, forest supervisor, Escondido (WU-WF).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU-WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF).

Lassen.—W. J. RUSHING, forest supervisor, Mineral (P via Red Bluff-WF via Red Bluff); M. R. Tillotson, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU-WF); Oscar M. Evans, forest examiner.

Mono.—See Nevada.

Monterey.—HAMILTON G. MERRILL, forest supervisor, King City (WU-WF).

- Plumas.**—D. N. ROGERS, forest supervisor, Quincy (WU-Am) ; Frank B. Cayot, deputy forest supervisor ; George R. Orr and Reese W. Taylor, forest examiners.
- Santa Barbara.**—J. R. HALL, forest supervisor, Santa Barbara (P-WF).
- Sequoia.**—S. W. WYNNE, forest supervisor, Hot Springs (WU via Ducor-WF) ; F. P. Cunningham, deputy forest supervisor ; George W. Lyons, forest examiner.
- Shasta.**—R. F. HAMMATT, forest supervisor, Sisson (P-WF) ; Belknap C. Goldsmith, forest examiner ; C. H. Ensign, scaler. Pilgrim Creek Nursery, Fred W. Graham, forest ranger, in charge, McCloud.
- Sierra.**—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant-WF via Friant) ; Chester E. Jordan, deputy forest supervisor ; D. C. Birch and Ernest G. Dudley, forest examiners.
- Stanislaus.**—R. W. AYRES, forest supervisor, Sonora (WU-WF) ; T. C. West, deputy forest supervisor ; J. V. Wulff, forest examiner.
- Tahoe.**—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF) ; W. A. Merrill, deputy forest supervisor ; L. T. Larsen and K. Mills, forest examiners.
- Trinity.**—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF) ; Ernest V. Jotter, forest examiner.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester ; LEONARD LUNDGREN, district engineer ; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester ; Shirley Buck, national forest inspector.

MAINTENANCE.—H. M. WHITE.

M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer.

GEOGRAPHY.—ALLEN H. HODGSON.

FIRE STUDIES.—W. B. OSBORNE, deputy forest supervisor; E. J. FENBY and NORMAN G. JACOBSON, forest examiners.

B. J. FINCH, senior highway engineer (Office of Public Roads and Rural Engineering).

SILVICULTURE.—F. E. AMES, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen; A. J. JAENICKE, insect control.

PLANTING.—J. F. KÜMMEL, C. P. WILLIS, and W. H. LEVE, forest examiners.

FOREST INVESTIGATIONS.—T. T. MUNGER, forest examiner.

GRAZING.—T. P. MACKENZIE, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS.—W. M. H. WOODWARD, mineral examiner.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

USES AND STATIONS.—FRANK A. LAW, Jr., clerk.

LAND CLASSIFICATION.—J. ROY HARVEY, national forest examiner.

ENTRY SURVEYS.—W. M. H. WOODWARD, mineral examiner.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor.

PRODUCTS.—H. B. OAKLEAF, in charge; CLAUDE E. GREIDER and C. W. GOULD, Portland; C. W. ZIMMERMAN, CORNELIUS BARRY, and E. G. SNELL, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thomas M. Hunt, forest supervisor, Seward (WU, P-WF).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); George L. Drake, deputy forest supervisor.

OREGON.

- Cascade.**—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); B. F. Heintzleman, deputy forest supervisor.
- Crater.**—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); A. E. Cohoon, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.
- Deschutes.**—W. W. G. HASTINGS, forest supervisor, Bend (WU, P); V. V. Harpham, deputy forest supervisor.
- Fremont.**—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev-P, WF); R. A. Bradley, deputy forest supervisor.
- Klamath.**—See California.
- Malheur.**—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Am, WF via Baker).
- Minam.**—EPHRAIM BARNES, forest supervisor, Baker (WU-Am); W. E. White, forest examiner.
- Ochoco.**—HOMER ROSS, forest supervisor, Prineville (WU, PT & T-Am); R. E. Smith, forest examiner.
- Oregon.**—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; Geo. A. Bright, forest examiner; Robert Craig, national forest examiner.
- Santiam.**—C. C. HALL, forest supervisor, Albany (WU, P-WF); A. R. Wilcox, forest examiner.
- Siskiyou.**—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P-WF); D. B. Reynolds, deputy forest supervisor; H. Haefner, forest examiner.
- Siuslaw.**—H. B. RANKIN, forest supervisor, Eugene (WU, P-WF); C. T. Beach, deputy forest supervisor; H. M. Johnson and L. B. Pagter, forest examiners.
- Umatilla.**—W. W. CRYDER, forest supervisor, Pendleton (WU, P-Am); F. B. Kellogg, forest examiner.
- Umpqua.**—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); George Bonebrake, deputy forest supervisor; R. S. Wallace, forest examiner.
- Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); N. J. Billings, deputy forest supervisor.
- Wenaha.**—See Washington.
- Whitman.**—R. M. EVANS, forest supervisor, Sumpter (WU via Baker-Am, WF via Baker); F. A. Matz, deputy forest supervisor; T. J. Starker, forest examiner.

WASHINGTON.

- Chelan.**—E. H. MACDANIELS, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).

- Columbia.**—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N) ; L. Wernsted, forest examiner.
- Colville.**—C. C. REID, forest supervisor, Republic (WU, P-Am, GN) ; F. W. Cleator, deputy forest supervisor.
- Okanogan.**—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee).
- Olympic.**—R. L. FROMME, forest supervisor, Olympia (WU, P-Am, GN, N) ; A. A. Parker, deputy forest supervisor ; E. J. Hanzlik, forest examiner.
- Rainier.**—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N) ; P. T. Harris, deputy forest supervisor ; A. F. Kerr, forest examiner.
- Snoqualmie.**—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P-N, GN, WF).
- Washington.**—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N) ; R. L. Campbell, deputy forest supervisor.
- Wenaha.**—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).
- Wenatchee.**—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN).

DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester ; FRANKLIN W. REED, assistant district forester ; H. O. STABLER, assistant district forester ; FRANCIS KIEFER, assistant district forester ; S. L. WOLFE, forest examiner, in charge of products ; GEORGE E. MARSHALL, lumberman ; R. C. HALL, forest examiner, in charge of timber surveys.

NATIONAL FORESTS.

ARKANSAS.

- Arkansas.**—R. C. HUEY, forest supervisor, Hot Springs (WU, P-WF, P) ; E. J. Mead, deputy forest supervisor.
- Ozark.**—E. V. CLARK, forest supervisor, Harrison (WU-WF) ; C. J. Heller, forest examiner.

FLORIDA.

- Florida.**—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers, Fla. (WU, P) ; W. F. Hill, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU-WF).

PORTO RICO.

Luquillo.—(Not under administration.)

PURCHASE AREAS.

Boone.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P-So).

Cherokee.—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P-Ad).

Georgia.—H. G. SPAHR, forest examiner, in charge, Blue Ridge, Ga. (WU, P-Ad).

Massanutten.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).

Monongahela.—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P-Ad).

Mount Mitchell.—J. J. FRITZ, forest examiner, in charge, Marion, N. C. (WU, P-So).

Nantahala.—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P-So).

Natural Bridge.—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P-Ad, So).

Pisgah.—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P-So).

Potomac.—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).

Savannah.—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P-So).

Shenandoah.—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P-Ad, So).

Unaka.—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P-So).

White Top.—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P-So).

White Mountain.—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P-Am).

SERVICE CHANGES.

APPOINTED.

RESEARCH.—Forest Products Laboratory : H. N. Calderwood, assistant chemist in forest products ; Clyde L. Moore, assistant engineer in forest products.

DISTRICT 1.—Donald H. Clark, grazing assistant ; Harold Townsend, surveyor-draftsman ; Rose A. McNamara, clerk (stenographer and typewriter) ; Margaret Norton, typist ; James W. Parker, Absaroka ; Arthur U. Stanley, Custer ; Lester H. McLean, Gallatin ; Harry C. Schick and Jean Ewen, Jefferson ; Sylver J. White, Lewis and Clark ; Arthur T. Smith, Madison ; John C. DeCamp, Pend Oreille ; Charles J. Hash, St. Joe, assistant forest rangers ; Gustav H. Wiese, Lewis and Clark, forest clerk ; Margaret T. Douglas, Deerlodge, clerk (stenographer and typewriter).

DISTRICT 2.—Henry C. Orpen, John Burgess, William H. Curwen, and William M. Jeffrey, surveyors-draftsmen ; Rosalia F. Shields, clerk (stenographer and typewriter) ; Alfred C. Anderson, Michigan, forest clerk ; Harry S. Dickerson, Holy Cross, forest ranger ; Paul F. Barker and William B. Mullen, Arapaho ; Walter Osborn, Warren T. Pilcher, and Albert Wiehe, Black Hills ; Ernest W. Hedlun, Harney ; Bly Dickson, Medicine Bow ; Lewis R. Rist, Montezuma ; Phillip V. Woodhead, Pike ; Charles F. Capes, Routt ; William M. Scanlan, Sopris ; Robert G. Schreck, Superior ; Fred Stell, White River, assistant forest rangers.

DISTRICT 3.—Frank E. Washburn, draftsman (copyist, topographic) ; Stella R. Gray, Alamo-Lincoln, clerk (stenographer and typewriter) ; Carl E. Toupain, Tonto ; Carroll Z. Wight, Sitgreaves, clerks (typewriters) ; Kenneth C. Balcomb, district office ; George B. Galer, Apache ; Thomas B. Ruth, Chiricahua ; Henry C. Deutsch and Frederick O. Knipe, Coconino ; Walter A. Foor, Datil ; Ralph W. Hussey, Gila ; Ernest C. Damon, Manzano ; George A. Churchwell, Alverous W. Fletcher, Fred Haworth, Raymond E. McMahon, Frank A. Williams, and George R. Yorke, Prescott ; Bascom H. Brown, Leonard D. Blodgett, Walter C. Lowdermilk, Fabian F. McCarty, and John V. Nevitt, Santa Fe ; James L. Hall, Sitgreaves ; John W. Johnson, Tonto ; Charles G. Baecht, Joseph M. Daly, and Raymond F. Grefe, Tusayan, assistant forest rangers.

DISTRICT 4.—Clarence E. Favre, grazing assistant ; William V. Evans, Caribou ; Lawrence J. Palmer, Sevier, forest rangers ; William J. Rafferty, Boise ; Charles C. Shaw, Challis ; Raymond J. Becraft and Edward P. Cox, Manti ; George E. Moore, Nevada ; E. Morgan Pryse, Palisade ;

Forest E. Robb, Payette; Lester L. Butler, John Gilman, Albert R. Griffith, Oscar W. Mink, and Earl Templeton, Sawtooth; David L. Enteman and Arthur G. Nord, Targhee; Franklin A. Hamilton and Oliver F. Vose, Weiser; Lowell E. Hicks, Wyoming, assistant forest rangers; John J. Dieu, Sevier; Walter L. Priest, Wyoming, forest clerks.

DISTRICT 5.—Peter C. Nichols, Sequoia; Lloyd P. Emerick, Shasta, clerks (stenographers and typewriters); John C. Cumberland, messenger boy.

DISTRICT 6.—Fred E. Pape and Lewis A. McArthur, collaborators; Roy A. Knaup, draftsman; Madeline C. Meyers and Dorothea M. Koerber, clerks; Victor H. W. Flack, messenger boy; H. Vivian Brown, Columbia; Roy Muncaster, Olympic; Charles J. Kraebel, Oregon; Gustaf W. Hult, Santiam; Robert H. Harper, Wallowa; Frank W. Mattson, Whitman, assistant forest rangers; Abbott C. Read, Deschutes, clerk; Robert Kelcynske, Whitman, clerk (stenographer and typewriter).

DISTRICT 7.—Knox W. Cody, Arkansas; Howard S. Sawyer, Carroll B. Shiffer, Raymond H. Fiske, John D. Lawrence, and Leroy M. Richardson, White Mountain; Julius G. Siler, Jr., Nantahala; Leroy O'Kelley, Peter C. Coates, Webb Hollingsworth, Lewis M. Carland, and Wesley Burress, Pisgah; John E. Potts, Savannah; George M. Bird, Joel O. Brigman, William Camile Chable, and Leland Fouts, Mount Mitchell; George W. Cole and Charles Snyder, Unaka; George S. Blevins and Joseph Hendley Johnson, White Top; Charles M. Johnson and Robert A. Johnson, Natural Bridge, assistant forest rangers.

PROMOTED IN RANK.

DISTRICT 1.—Roscoe Haines, St. Joe, forest ranger to forest supervisor; L. F. Vinal, Kootenai, scaler to deputy forest supervisor; E. A. Woods, Lewis and Clark; Howard Drake, Coeur d'Alene; David F. McGill, Sioux, assistant forest rangers to forest rangers.

DISTRICT 2.—Albin G. Hamel, San Isabel; Wm. G. Baxter, Sopris, forest examiners to forest supervisors; Henry C. Langston, Arapaho; Rufus J. Pilcher, Black Hills; Fred C. Parrett, Pike; Stephen E. Doering, Rio Grande; Chas. G. White, San Juan; Chas. L. Cecil, Superior, assistant forest rangers to forest rangers.

DISTRICT 3.—James A. Scott, Alamo-Lincoln; Elliott S. Barker, Carson, forest rangers to deputy forest supervisors; George W. Kimball, Tusayan, forest ranger to forest examiner; George W. Messer, Alamo; Edward P. Ancona, Carson; Earl W. Loveridge and Fred V. Plomteaux, Santa Fe; Thomas P. Reid, Tusayan, assistant forest rangers to forest rangers.

DISTRICT 4.—Clarence N. Woods, inspector of grazing to assistant district forester, office of lands; Ernest Winkler, forest supervisor to inspector of grazing, office of grazing; Lucas W. Hastings, Caribou; Carl A. Mattson, Fishlake; Hubert C. Williams, Idaho, deputy forest

supervisors to forest supervisors; Herman Work, Caribou, forest examiner to deputy forest supervisor; William W. Smith, Wasatch, forest ranger to deputy forest supervisor; Leslie E. Dodge, Challis; James Jensen, Fillmore; Maurice B. Cross and Paul Schulze, Humboldt; Francis M. Cox, jr., Manti; Ray Pickett, Palisade; William H. Horton and Horace B. Howland, Sawtooth; Clinton M. Mangun, Weiser, assistant forest rangers to forest rangers.

DISTRICT 5.—John D. Coffman, deputy forest supervisor to forest supervisor; Edward I. Kotok, forest examiner to forest supervisor.

DISTRICT 6.—Alexander G. Jackson, forest examiner to deputy forest supervisor; Everett H. MacDaniels, Chelan, deputy forest supervisor to forest supervisor; E. E. Harpham, Olympic, from assistant forest ranger to scaler; Jesse L. Peterson, Wallowa, assistant forest ranger to grazing examiner.

DISTRICT 7.—Seth E. Hopewell, Arkansas, forest clerk to deputy forest supervisor.

CHANGE IN DESIGNATION.

DISTRICT 1.—Claget Sanders, St. Joe, scaler to forest ranger; Solomon E. Perlman, Cabinet, forest assistant to assistant forest ranger; F. G. Clark, deputy forest supervisor to forest examiner.

DISTRICT 2.—John McLaren, forest supervisor to national forest examiner; Henry C. Langston, Arapaho, surveyor to assistant forest ranger.

DISTRICT 3.—Joseph C. Kircher, Santa Fe, forest examiner to forest supervisor; Charles H. Kissam, district office, deputy forest supervisor to forest examiner.

DISTRICT 5.—Wm. S. Brown, Modoc, clerk to deputy forest supervisor.

RESIGNED.

ACQUISITION.—James Gore, jr., Herbert L. Cooper, Rodney D. Brown, transitmen.

RESEARCH.—Forest Products Laboratory: Norman DeWitt Betts, engineer in forest products; Oscar W. Torgeson, laboratory aid and engineer.

DISTRICT 1.—James Logan, Coeur d'Alene, forest assistant; Ernest Wethern, Gallatin; Adolph J. Bucher, Helena, forest rangers; George W. Cady and George A. Edwards, Lolo, scalers; J. R. Winnington, Coeur d'Alene; Benjamin F. Thompson, Deerlodge; Christian O. Hansen, Helena; George B. Rowe, Madison; Eugene Langdon, Nezperce; Guy A. Terry, St. Joe, assistant forest rangers; Beatrice F. Welch, Deerlodge; Dorothy Nebergall, Flathead; Mary S. Buzzell, Lewis and Clark; Lottie I. Brower, clerks (stenographers and typewriters); Charles A. Fisher, national forest examiner; William H. Alkire, messenger boy.

DISTRICT 2.—Seward D. Smith, forest examiner; Winifred C. Bunker and Rosamond E. Fry, district office; Nellie S. Serier, Michigan, clerks (stenographers and typewriters); John E. Stephens, Arapaho; Fred J. Seals, Black Hills; William A. Poe, Harney; Hiram K. Wright, Minnesota, forest rangers; Bertram A. Goodman and Walter M. Thomas, Arapaho; Robt. L. Peltz, Harney; Oliver E. Taylor, Hayden; Harry Friend, Holy Cross; Allen Snyder, San Juan; Gilbert H. Hutchins, Sopris, assistant forest rangers.

DISTRICT 3.—Otho M. Sutherland, draftsman (mechanical); Frank C. Severns, blueprinter; Edward L. Blust, messenger; Charles M. Kachlmeier, Tonto, clerk (stenographer and typewriter); James H. Kinney, Lincoln, forest supervisor; Thomas E. McCullough, Coconino, forest examiner; Ralph E. King, Prescott, forest ranger; Fred W. Croxen, Coconino; George H. Birdno, Crook; Clark A. Gingery, Prescott; Guilford B. Chapin, Santa Fe, assistant forest rangers; Walter G. Turley, surveyor.

DISTRICT 4.—Timothy C. Hoyt, assistant district forester; office of lands; Irvin N. Hoffman, copyist, topographic draftsman, geography; Herbert Graff, Idaho; James M. Ryan, Ruby; Frank Bruins, Wasatch, forest supervisors; Adolph G. Hauge, Wasatch, forest examiner; John A. Ferguson, Caribou; John A. Wood, Challis; Samuel A. Buchanan, Minidoka; William L. Farmer and Standley D. Reed, Nevada; William Swan, Salmon; Geo. W. Yeaman, Wyoming; William S. Paddock, Payette; Hyrum A. Porter, Powell; George Donart, Weiser, assistant forest rangers; Ethel Jarvis, Dixie, forest clerk.

DISTRICT 5.—William C. Hoge, jr., forest examiner; Carl O. Brenner, California; Mark C. Cathey, Sierra; Edward Elmgren and David W. Haas, Trinity, assistant forest rangers; Rollin A. Fairchild, Sequoia; Martha M. Entwistle, Shasta, clerks (stenographers and typewriters).

DISTRICT 6.—Paul L. Wise, messenger boy; George W. Milham, Chelan, forest supervisor; Fritz Sethe, Columbia; James J. Simerville, Crater; Lee E. Emery, Oregon; Stephen J. Spoerl, Siskiyou; Newton V. Downs and John F. Winniford, Wallowa, assistant forest rangers; Aaron H. Walton, Oregon, forest ranger.

With deep regret announcement is made of the death of Henry J. Ireland, forest supervisor, Whitman, May 31, 1916.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

SERVICE ORDER 46.

State Cooperation—

A number of the States have State foresters, State fire wardens, or similar officials who are conducting forestry work in the various lines, such as the administration of State forests, fire protection, investigations, the collection of statistics, and the like. It is to the mutual advantage of the States and the Forest Service that each be informed of the forest activities of the other. The purpose of this order is to promote an interchange of information between the States and the Service regarding such activities and thus more closely to cement the relations between the two agencies. To effect this purpose the Office of State Cooperation will act as a clearing house for all information relating to the States. Therefore, the following instructions, which will apply only to the States in District 7 and to Michigan, Wisconsin, and Minnesota, are issued:

(1) Branches and offices in charge of investigative projects, including those concerning silviculture, products, fire protection, and statistics, but excluding those concerning National Forest work, will inform State foresters or other forestry officials in the region where any considerable work is to be done of the character of each project and the general plan for carrying it out, as soon as practicable after the project has been formulated. The criticism and suggestions of the State official should be invited. This should be done not only as a matter of courtesy to him, but also to secure the benefits of his knowledge and cooperation as far as possible.

(2) Branches and offices will supply the Office of State Cooperation with the same information, preferably by carbon copy of the letter to the State officer.

(3) All news items, bulletins, circulars, or other material intended for publication which mention or directly concern State activities will be referred by the Editor to the Office of State Cooperation for suggestions.

(4) The Office of State Cooperation will send to the State foresters or similar officials a circular letter from time to time giving informa-

tion on technical or administrative activities of the Service which may interest the States. It will be understood that information contained in such letters will not be published by the States, so that tentative results can be given.

All branches and offices will send to the Office of State Cooperation monthly reports and other material of special interest suitable to be included in such letters, with suggestions, preferably in the form of memoranda, as to special features therein which should be mentioned. Such material will there be abstracted and incorporated into the letters, together with similar material collected from the States.

Information on district activities obtained from monthly and other reports will be used from time to time; and district foresters are asked to aid the Office of State Cooperation by suggesting or forwarding other material whose use in the periodic letters would be desirable.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Harry I. Babbitt: Timber trespass, civil, Helena National Forest. Case closed upon receipt of \$115.80, value of timber cut.

United States *v.* Fred C. Burks: Timber trespass, civil, Missoula National Forest. Case settled upon payment of \$40, value of timber cut.

United States *v.* Fischer & Hample: Grazing trespass, civil, Beaverhead National Forest. Case closed upon payment of \$7.15, value of forage consumed.

United States *v.* Great Northern Railway Co., Winston Brothers Co., and C. W. Werdenhoff: Fire trespass, Lewis and Clark National Forest. Government's motion to strike from defendants' amended answer overruled by Judge Bourquin May 5, 1916. Government's reply brief to amended answer filed May 26, 1916. June 20, 1916, defendants filed demurrer and motion to strike from Government's reply to amended answer.

United States *v.* Philip Link: Occupancy trespass, Coeur d'Alene National Forest. Letter prepared for signature of district forester advising Link that he would be required to vacate the premises by July 1, 1916. Complaint prepared for institution of injunction proceedings.

Law Cases in District 2—

United States *v.* C. M. Boyd: Fire trespass, Holy Cross National Forest. Case closed upon payment of \$39.48.

United States *v.* John H. Burnside: Grazing trespass, Kansas National Forest. Settled by payment of \$13.25.

United States *v.* Denver & Salt Lake Railroad Co.: Fire trespass, Pike National Forest. Settled by payment of \$300 judgment and \$20 costs.

United States *v.* R. T. Walker et al.: Timber trespass. Wilson and Force, sureties, of Minneapolis, Minn., have paid in full the judgment in this case amounting to \$2,188.80, covering the value of timber cut and removed from certain lands in the Harney National Forest, and costs of the case.

United States *v.* H. D. Robinson: Occupancy trespass, Black Hills National Forest. Judge Elliott of the district of South Dakota, on June 22, 1916, issued an injunction restraining H. D. Robinson from interfering with the Forest Service in the sale of certain timber on lands claimed by Robinson under settlement right.

Law Cases in District 3—

United States *v.* Mrs. H. B. Birmingham: Grazing trespass, Datil National Forest. Case closed on payment of \$46.25, the value of the forage.

United States *v.* Mrs. Edith Fuentes: Grazing trespass, Datil National Forest. Case closed on payment of \$43.75, the value of the forage.

United States *v.* Emma J. Maybery: Grazing trespass, Datil National Forest. Case closed on payment of \$50, the value of the forage.

United States *v.* W. G. Maybery: Grazing trespass, Datil National Forest. Case closed on payment of \$41.25, the value of the forage.

United States *v.* Eraso & Guebenson: Grazing trespass, Prescott National Forest. Case closed on payment of \$13.50, the value of the forage.

United States *v.* Golsarry & Sancet: Grazing trespass, Prescott National Forest. Case closed on payment of \$102.50, the value of the forage.

United States *v.* Medler Brothers: Grazing trespass, Tonto National Forest. Case closed on payment of \$37.20, the value of the forage.

United States *v.* Felipe Alderete: Grazing trespass, Manzano National Forest. Case closed on payment of \$8.50, the value of the forage.

United States *v.* Melcor Alderete: Grazing trespass, Manzano National Forest. Case closed on payment of \$8.53, the value of the forage.

United States *v.* R. H. Cameron et al.: Occupancy trespass, Tusayan National Forest (Willow & Alder Mill sites). Complaint asking injunction against further occupancy filed June 6, 1916.

United States *v.* R. H. Cameron et al.: Occupancy trespass, Tusayan National Forest (Cape Horn Lode). Temporary restraining order prohibiting the erection of further buildings or making of further excavations issued June 6, 1916.

United States *v.* Constantino Santander: Grazing trespass, Prescott National Forest. May 12, 1916, defendant arrested and held for grand jury under \$250 bond.

Law Cases in District 4—

United States *v.* Myrl Byrd: Property trespass, Cache National Forest. Defendant pleaded guilty in United States district court at Pocatello at March term and was sentenced to serve 30 days in jail.

United States *v.* M. Raycraft: Timber trespass, Dixie National Forest. Demand made for \$20 actual damages. Amount paid. Case closed.

United States *v.* J. B. Ferguson: Grazing trespass, Challis National Forest. Demand made for \$5.19 actual damages. Amount paid. Case closed.

United States *v.* Bruneau Sheep Co.: Grazing trespass, Humboldt National Forest. Demand made for \$37.76 actual damages. Amount paid. Case closed.

Law Cases in District 6—

United States *v.* James Ainge: Fire trespass, Wenatchee National Forest. On April 12 James Ainge pleaded guilty to setting fire on the Wenatchee National Forest, before a justice of the peace at Leavenworth, Wash., and was fined \$25.

United States *v.* Kittitas Railway & Power Co.: Timber trespass, Wenatchee National Forest. On May 3 judgment was entered in the United States district court for eastern district of Washington in the sum of \$692.25 and costs.

United States *v.* J. D. (Dave) Edler: Grazing trespass, Fremont National Forest. Trespasser paid actual damages of \$60 and punitive damages amounting to \$100.

United States *v.* Barney Parks: Grazing trespass, criminal, Malheur National Forest. Trespasser was arrested, pleaded guilty on May 19, was fined \$50, which has been paid.

United States *v.* Elmer Costelloe: Fire trespass, criminal, Siskiyou National Forest. Trespasser was arrested, pleaded guilty before Judge Bean, United States district court for Oregon, on June 17, and was sentenced to 30 days in jail.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 343.—Ground Wood Pulp.

Department Bulletin 364.—Forest Conservation for States in the Southern Pine Region.

Farmers' Bulletin 715.—Measuring and Marketing Woodlot Products.

Recreation map for Black Hills Region.

Recreation map for Columbia Gorge Park.

Recreation map for White Mountain Region.

Recreation map for Oregon National Forest.

Recreation map for Sequoia National Forest.

Recreation map for Shasta National Forest.

Recreation map for Stanislaus National Forest.

Recreation map for Trinity National Forest.

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